UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450

NOTICE OF ALLOWANCE AND FEE(S) DUE

23465

7590

05/03/2004

JOHN S. BEULICK C/O ARMSTRONG TEASDALE, LLP ONE METROPOLITAN SQUARE **SUITE 2600** ST LOUIS, MO 63102-2740

EXAMINER

RICHARDSON, JOHN A

ART UNIT

PAPER NUMBER

3641

DATE MAILED: 05/03/2004

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/065,772	11/18/2002	Hwang Choe	24-NS-6042	2406

TITLE OF INVENTION: APPARATUS AND METHODS FOR OPTIMIZING REACTOR CORE COOLANT FLOW DISTRIBUTIONS

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1330	\$300	\$1630	08/03/2004

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current **SMALL ENTITY status:**

A. If the status is the same, pay the TOTAL FEE(S) DUE shown

B. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.

☐ Applicant claims SMALL ENTITY status. See 37 CFR 1.27.

II. PART B - FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B - Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail

Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (703) 746-4000

INSTRUCTIONS: This for appropriate. All further con indicated unless corrected be maintenance fee notification	respondence including the Pa selow or directed otherwise in	nitting the ISSUE FEE a tent, advance orders and n Block 1, by (a) specify	and PUBLICATION FEE notification of maintenance ing a new correspondence	(if required). Blocks 1 through 4 to fees will be mailed to the curren address; and/or (b) indicating a sep	should be completed where t correspondence address as parate "FEE ADDRESS" for
CURRENT CORRESPONDENCE	E ADDRESS (Note: Legibly mark-up v	with any corrections or use Block 1	Fee(s) Transm papers. Each a	ficate of mailing can only be used the sittal. This certificate cannot be used additional paper, such as an assignment	for any other accompanying tent or formal drawing, mus
JOHN S. BEULIO C/O ARMSTRONO ONE METROPOL SUITE 2600	CK G TEASDALE, LLP		I hereby certif States Postal S addressed to	ertificate of mailing or transmission. Certificate of Mailing or Tran fy that this Fee(s) Transmittal is bein Service with sufficient postage for fi the Mail Stop ISSUE FEE addres the USPTO, on the date indicated be	nsmission In deposited with the Uniter In the class mail in an envelope In a bove, or being facsimile
ST LOUIS, MO 63	102-2740				(Depositor's name)
				·	(Signature)
					(Date)
APPLICATION NO.	FILING DATE	FIRST NA	MED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/065,772	11/18/2002	Н	wang Choe	24-NS-6042	2406
TITLE OF INVENTION: A	PPARATUS AND METHOD	S FOR OPTIMIZING RE	ACTOR CORE COOLANT	I FLOW DISTRIBUTIONS	
APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FE	EE TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1330	\$300	\$1630	08/03/2004
EXAM	INER	ART UNIT	CLASS-SUBCLAS	SS	
RICHARDSON, JOHN A		3641	376-352000		
Address form PTO/SB/12 "Fee Address" indicatic PTO/SB/47; Rev 03-02 of Number is required. 3. ASSIGNEE NAME AND PLEASE NOTE: Unless	on (or "Fee Address" Indication more recent) attached. Use of RESIDENCE DATA TO BE an assignee is identified below	n form attorn will be PRINTED ON THE PAT	pnear on the patent. Inclusi	2 registered patent	iate when an assignment ha
(A) NAME OF ASSIGNE	assignee category or categoric	(B) RESIDE es (will not be printed on t 4b. Paymen	he patent); undividuant of Fee(s): ck in the amount of the fee(ent by credit card. Form PT	OR COUNTRY) al corporation or other private g (s) is enclosed. CO-2038 is attached.	group entity 🚨 governmen
- Advance Order - # 01 C	Lopies	Deposit	Account Number	ed by charge the required fee(s), or (enclose an extra	copy of this form).
Director for Patents is reques	ted to apply the Issue Fee and	Publication Fee (if any)	or to re-apply any previously	ly paid issue fee to the application ide	entified above.
(Authorized Signature)	A	(Date)			
other than the applicant; a interest as shown by the rec	Publication Fee (if required a registered attorney or agen ords of the United States Pate	t; or the assignee or oth nt and Trademark Office.	er party in		
obtain or retain a benefit tapplication. Confidentiality estimated to take 12 minute completed application form case. Any comments on suggestions for reducing the Patent and Trademark C 22313-1450. DO NOT SI SEND TO: Commissioner for the suggestion of the suggestion of the suggestion of the suggestion of the suggestion.	ion is required by 37 CFR 1 by the public which is to file is governed by 35 U.S.C. 122 bes to complete, including gath to the USPTO. Time will the amount of time you recais burden, should be sent to office, U.S. Department of END FEES OR COMPLETS or Patents, Alexandria, Virgir duction Act of 1995, no per less it displays a valid OMP.	(and by the USPTO to per and 37 CFR 1.14. This pering, preparing, and subvary depending upon the quire to complete this feather Chief Information Of Commerce, Alexandria ED FORMS TO THIS Ania 22313-1450.	process) an ollection is mitting the individual orm and/or fficer, U.S. , , Virginia ADDRESS.		

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIODNER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	ON NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/065,772	0/065,772 11/18/2002		Hwang Choe	24-NS-6042	2406
23465	7590	05/03/2004		EXAMINER	
• •	JOHN S. BEULICK			RICHARDSON, JOHN A	
	C/O ARMSTRONG TEASDALE, LLP ONE METROPOLITAN SQUARE				PAPER NUMBER
SUITE 2600		•		3641	
ST LOUIS, MO 63102-2740			DATE MAILED: 05/03/2004		

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 213 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 213 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (703) 305-1383. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.